

IAP10 Rec'd PCT/PTO 23 DEC 2007

FORM PTO-1390
(REV 10-94)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

09983.0153USWO

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)

Filed here within

PRIORITY DATE CLAIMED

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PCT/KR2003/001407

July 16, 2003

July 16, 2003

TITLE OF INVENTION

NANO-STRUCTURED METAL-CARBON COMPOSITE FOR ELECTRODE CATALYST OF FUEL CELL AND PROCESS FOR PREPARATION THEREOF

APPLICANT(S) FOR DO/EO/US

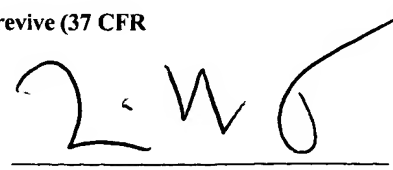
KIM et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(I).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ A signed oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98, Form 1449, and 0 references
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: Application Data Sheet 3 pages, Formal Drawings 3 pages, International Publication WO 2005/008813 A1, Form PCT/ISA/210

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) Filed here within 10/562041		INTERNATIONAL APPLICATION NO. PCT/KR2003/001407		ATTORNEY'S DOCKET NUMBER 09983.0153USWO	
BASIC NATIONAL FEE (37 CFR 1.492(a) (1)-(5)):					
[X] a) Basic National fee.....\$300.00				\$300.00	
[X] b) Examination fee.....\$200.00				\$200.00	
[X] c) Search fee.....\$500.00				\$500.00	
TOTAL OF ABOVE CALCULATIONS =				\$1,000.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		Rate	
26	-100 = 0	/50 =		X \$250.00	\$0.00
Surcharge of \$130.00 for furnishing the oath or declaration later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$0.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	22	-20 = 2	X \$50.00		\$100.00
Independent claims	3	-3 = 0	X \$200.00		\$0.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00		\$0.00
TOTAL OF ABOVE CALCULATIONS =				\$1,100.00	
Reduction by 1/2 for filing by small entity, if applicable. Small entity status is claimed pursuant to 37 CFR 1.27				\$550.00	
SUBTOTAL =				\$550.00	
Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				+ \$0.00	
TOTAL NATIONAL FEE =				\$550.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$40.00	
TOTAL FEES ENCLOSED =				\$590.00	
				Amount to be refunded	\$0.00
				charged	\$0.00
<p>a. [X] Check(s) in the amount of <u>\$550.00, \$40.00</u> to cover the above fees is enclosed.</p> <p>b. [] Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-2725</u>.</p>					
<p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p>					
<p>SEND ALL CORRESPONDENCE TO: Brian H. Batzli MERCHANT & GOULD P.O. Box 2903 Minneapolis, MN 55402-0903</p>					
				SIGNATURE: 	
				NAME: Brian H. Batzli	
				REGISTRATION NUMBER: 32,960	

10/562041

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IAP20 Rec'd PCT/PTO 23 DEC 2005

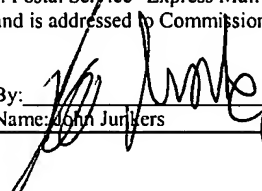
Applicant: KIM et al.
 Docket: 09983.0153USWO
 Title: NANO-STRUCTURED METAL-CARBON COMPOSITE FOR ELECTRODE CATALYST OF FUEL CELL AND PROCESS FOR PREPARATION THEREOF

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: EV 495844941 US

Date of Deposit: December 23, 2005

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

By: 
 Name: John Jurs

Mailstop PCT
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.10.
- ☒ National Stage PCT Patent Application: Spec. 19 pgs; 22 claims; Abstract 0 pgs.
The fee has been calculated as shown below in the 'Claims as Filed' table.
- ☒ 8 sheets of formal drawings
- ☒ Small entity status is claimed pursuant to 37 CFR 1.27
- ☒ A signed Combined Declaration and Power of Attorney
- ☒ Assignment of the invention to Kyungwon Enterprise Co., Ltd and Korea Advanced Institute of Science and Technology, Recordation Form Cover Sheet
- ☒ A check in the amount of \$550.00 to cover the Filing Fee
- ☒ A check for \$40.00 to cover the Assignment Recording Fee.
- ☒ Information Disclosure Statement, Form 1449, 0 reference(s).
- ☒ Application Data Sheet, 4 pages.
- ☒ Form 1390
- ☒ Other: Preliminary Amendment, International Publication WO 2005/008813 A1, Form PCT/ISA/210
- ☒ Return postcard

CLAIMS AS FILED

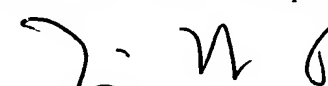
Number of Claims Filed	No.	In Excess of	Extra	Rate	Fee
Total Claims	22	20	2	\$25.00 =	\$50.00
Independent Claims	3	3	0	\$100.00 =	\$0.00
Multiple Dependent Claims Fee				=	\$0.00
Basic Filing Fee				=	\$150.00
Search Fee				=	\$250.00
Examination Fee				=	\$100.00
Utility Application Size Fee	31	100	0	\$125.00 =	\$0.00
Total				=	\$550.00

Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

Merchant & Gould P.C.
 P.O. Box 2903 Minneapolis, MN 55402-0903
 612.332.5300

23552

PATENT TRADEMARK OFFICE

By: 
 Name: Brian H. Batzli
 Reg. No.: 32,960
 Initials: BHB/ncb

(PTO TRANSMITTAL - NEW FILING)